TITLE: WIRELESS COMMUNICATION DEVICE, METHOD AND PROGRAM
INVENTORS: Akiko KUSUMOTO et al.
SERIAL NO.: Unassigned
DOCKET NO.: 1095.1310

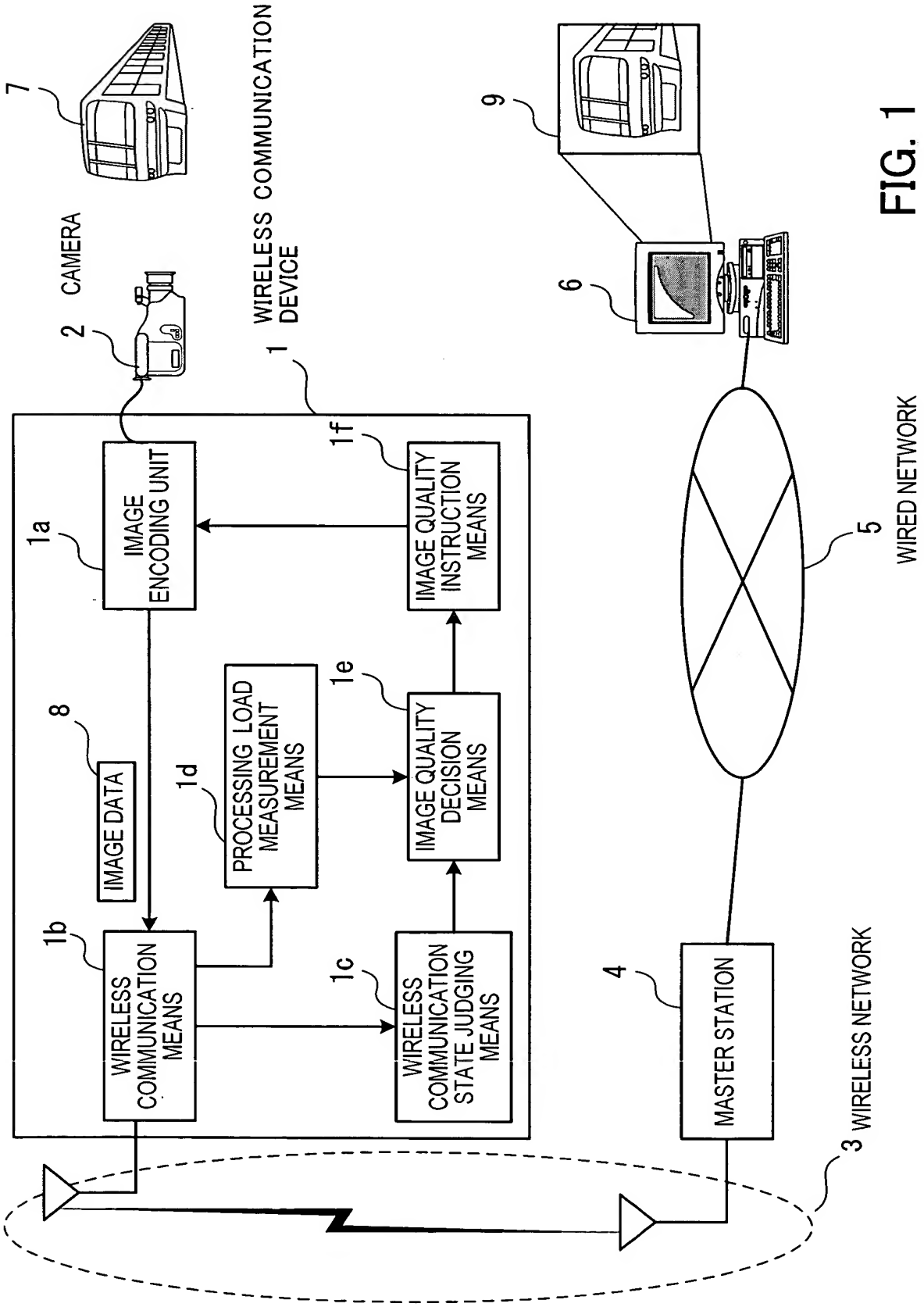

FIG. 1

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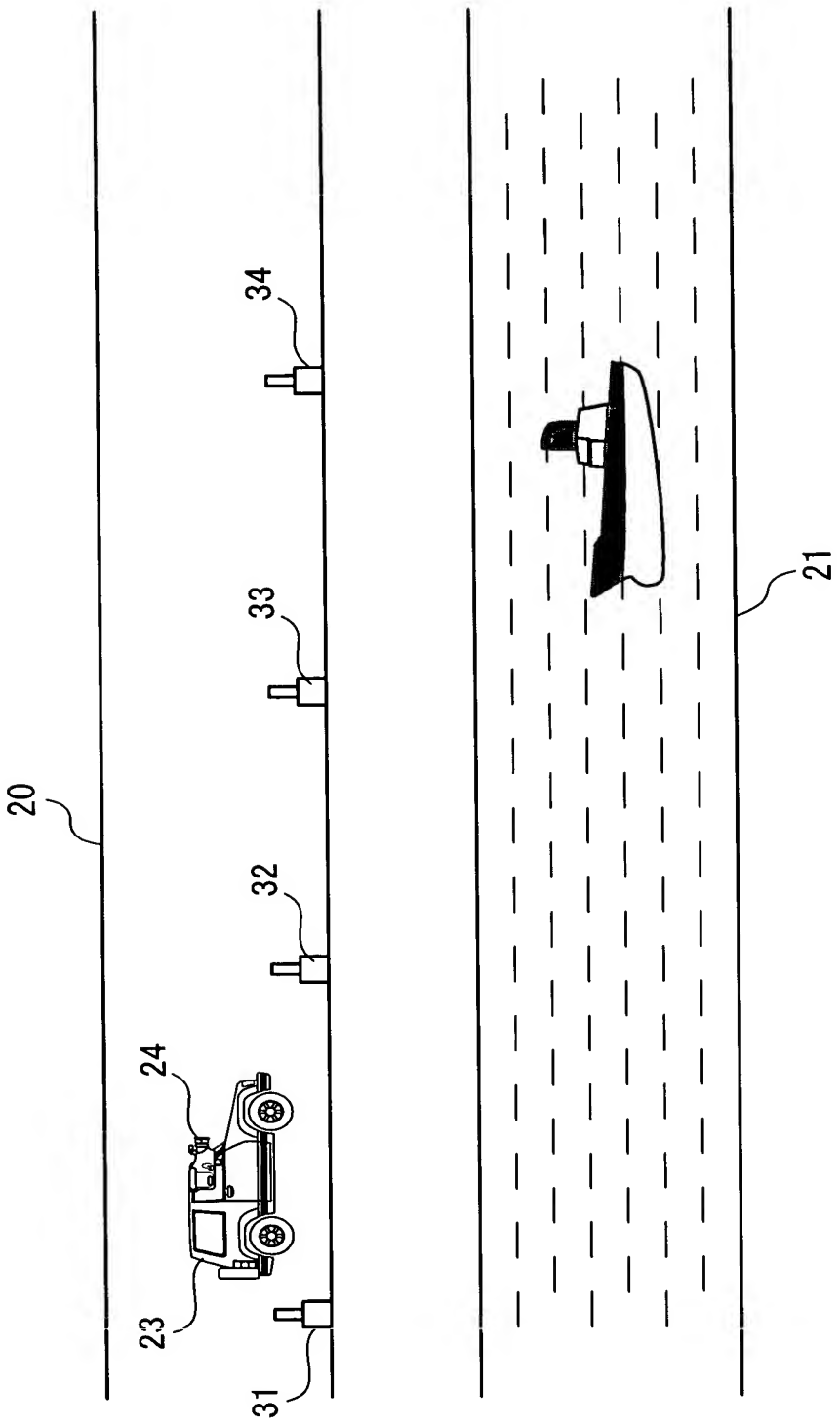

FIG. 2

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INVENTORS: Akiko KUSUMOTO et al.
SERIAL NO.: Unassigned
DOCKET NO.: 1095.1310

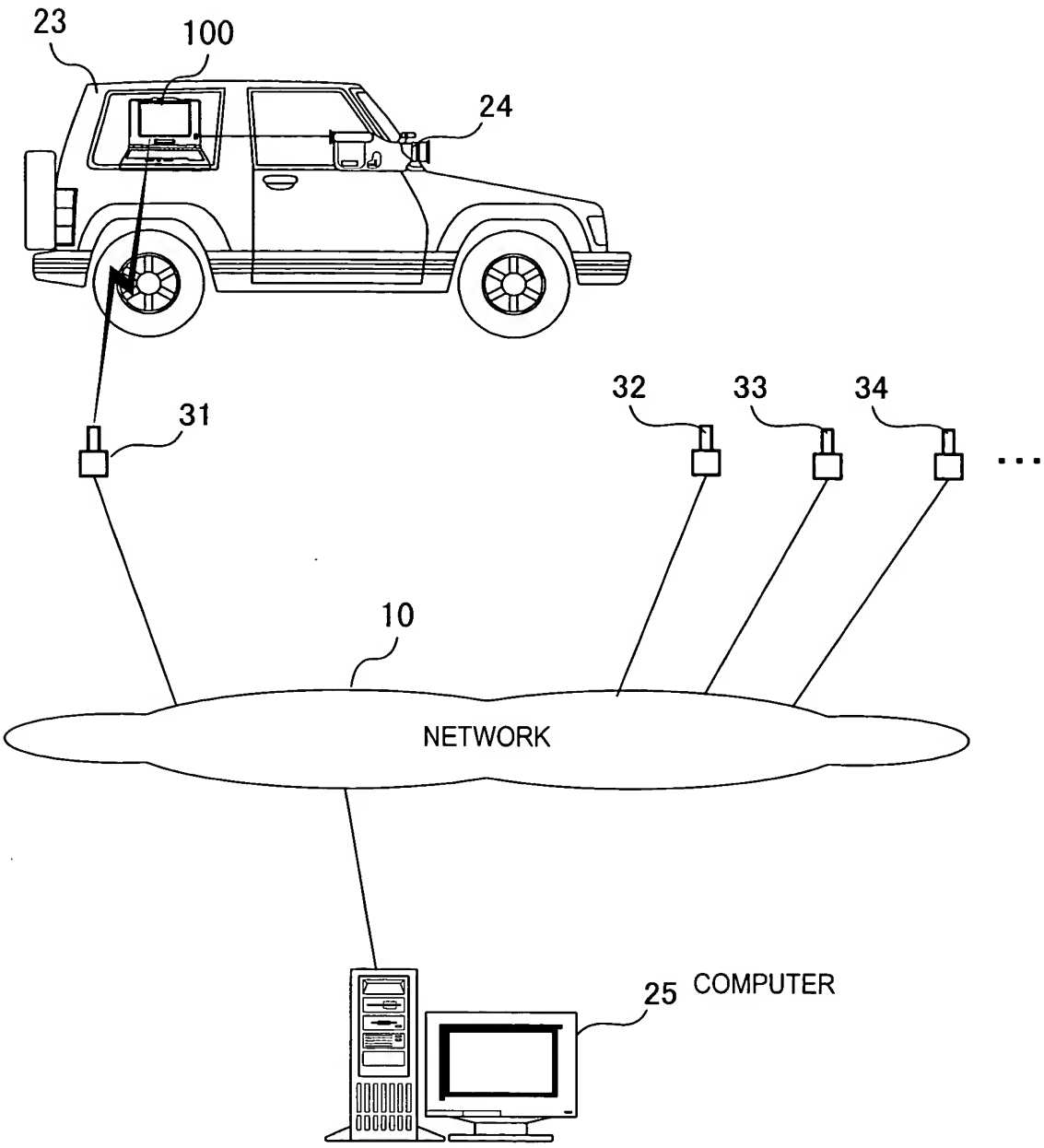

FIG. 3

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INVENTORS: Akiko KUSUMOTO et al.
SERIAL NO.: Unassigned
DOCKET NO.: 1095.1310

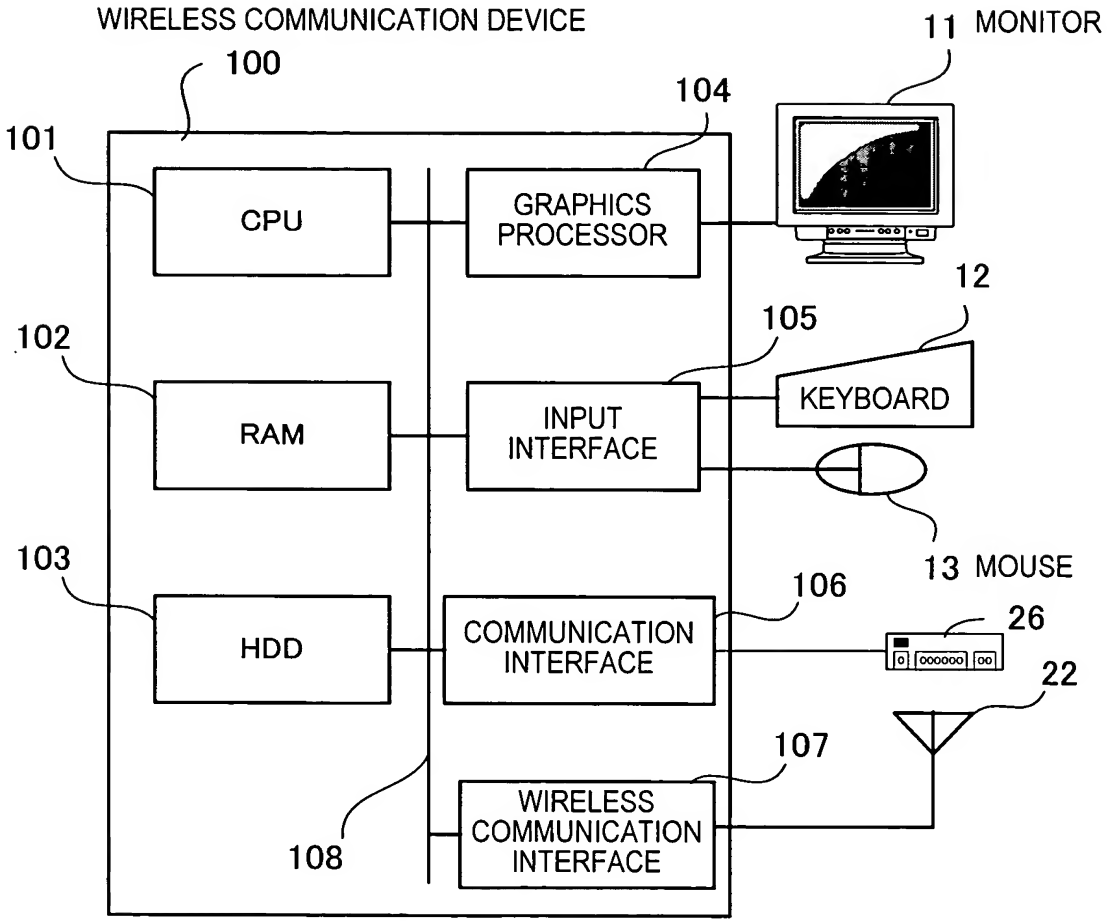

FIG. 4

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INVENTORS: Akiko KUSUMOTO et al.
SERIAL NO.: Unassigned
DOCKET NO.: 1095.1310

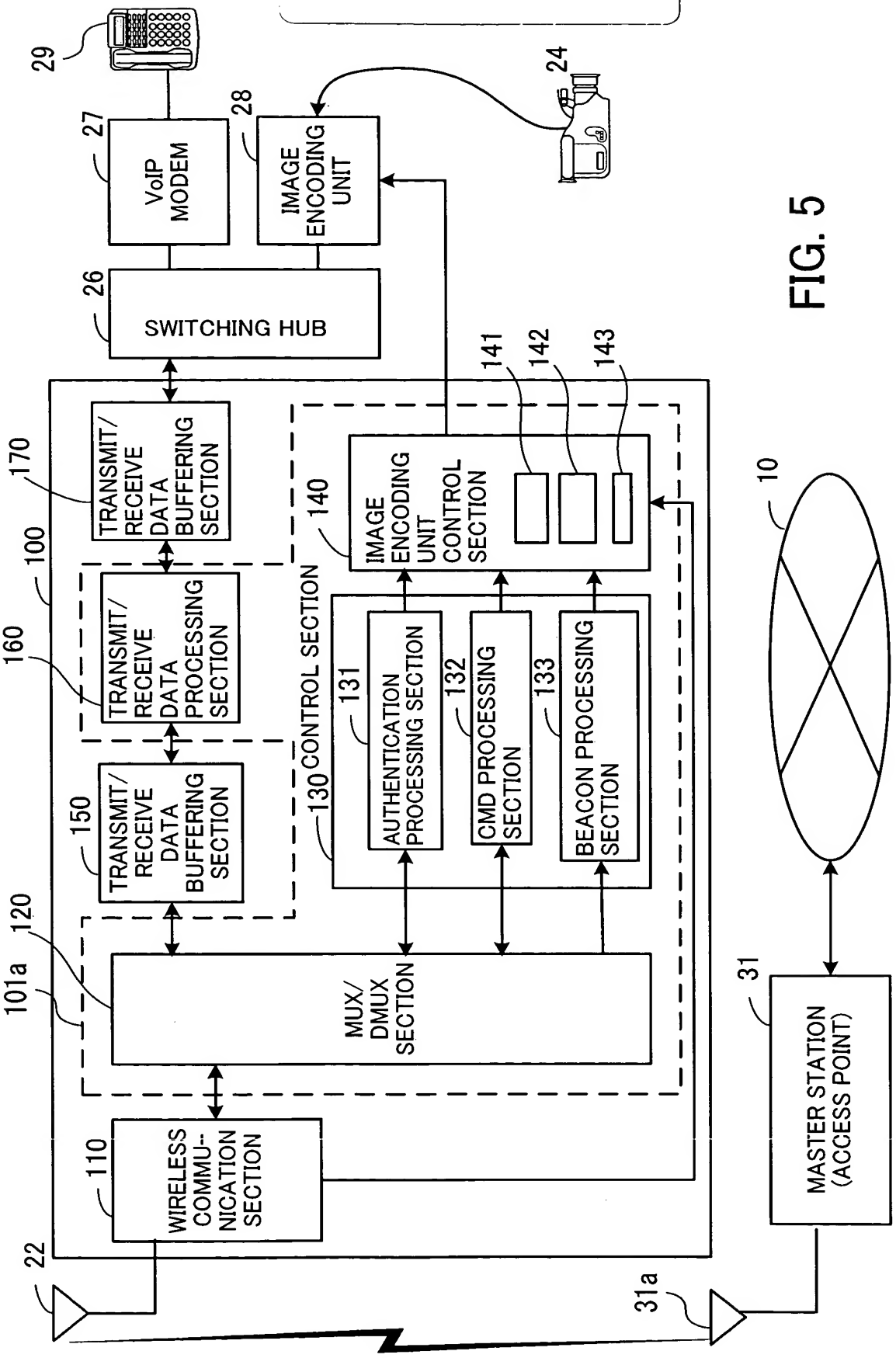

FIG. 5

141 PROCESSING LOAD AMOUNT-BIT RATE CORRESPONDENCE TABLE

PROCESSING LOAD AMOUNT [%]	OPTIMUM ENCODING BIT RATE [Mbps]
0～12	6.0
12～25	5.0
25～40	4.0
40～55	3.0
55～75	2.0
75～85	1.0
> 85	0.3

FIG. 6

142 RECEIVE LEVEL-BIT RATE CORRESPONDENCE TABLE

RECEIVE LEVEL [dBm]	OPTIMUM ENCODING BIT RATE [Mbps]
> −65	6.0
−67～−65	4.0
−70～−67	3.0
−78～−70	1.0
< −78	0.3

FIG. 7

143 INSTRUCTION SET VALUE TABLE

OPTIMUM ENCODING BIT RATE [Mbps]	3.0

FIG. 8

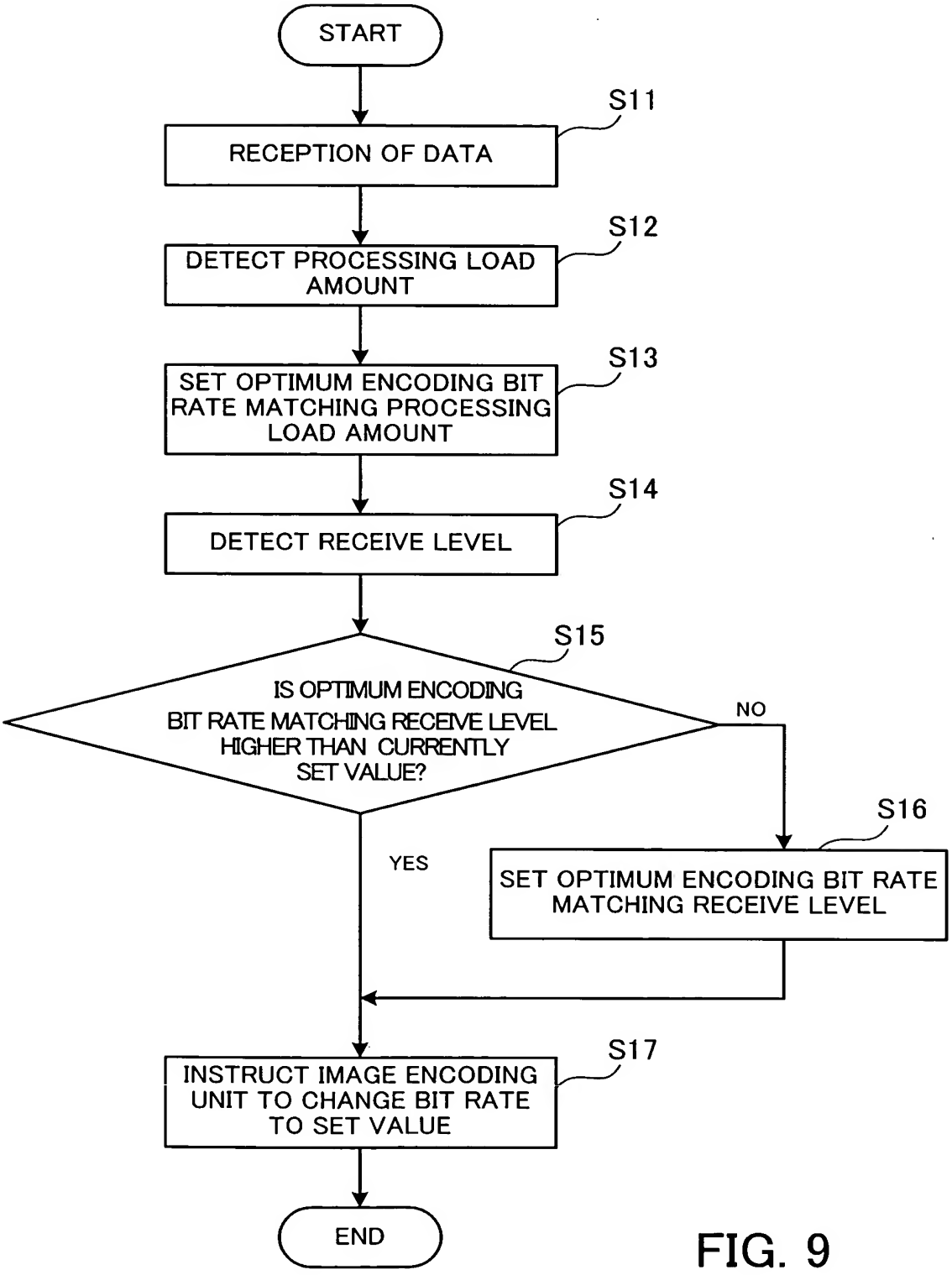
START
S11
RECEPTION OF DATA
S12
DETECT PROCESSING LOAD AMOUNT
S13
SET OPTIMUM ENCODING BIT RATE MATCHING PROCESSING LOAD AMOUNT
S14
DETECT RECEIVE LEVEL
S15
IS OPTIMUM ENCODING BIT RATE MATCHING RECEIVE LEVEL HIGHER THAN CURRENTLY SET VALUE?
NO
YES
S16
SET OPTIMUM ENCODING BIT RATE MATCHING RECEIVE LEVEL
S17
INSTRUCT IMAGE ENCODING UNIT TO CHANGE BIT RATE TO SET VALUE
END

FIG. 9

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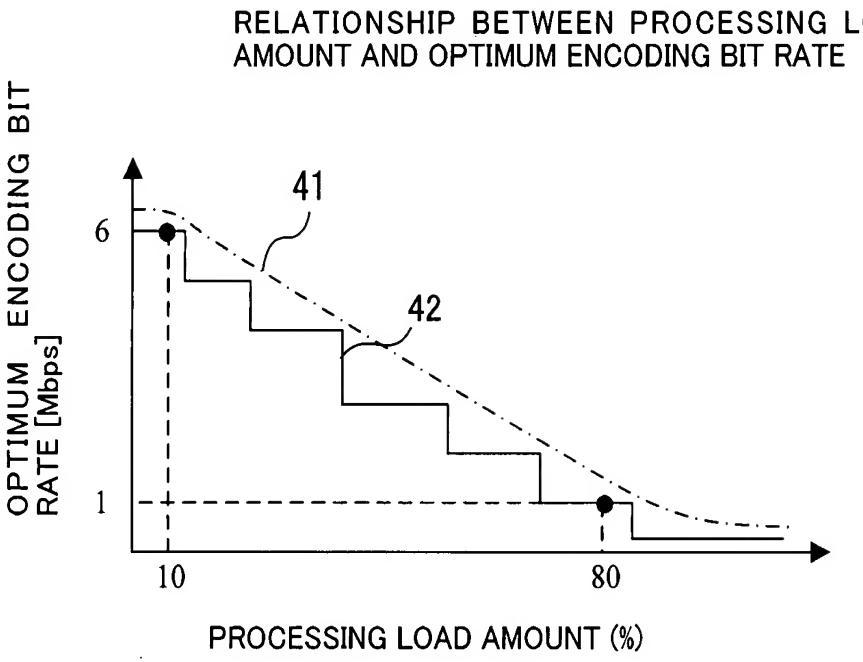

FIG. 10

OPTIMUM ENCODING BIT RATE LOGICAL VALUE

OPTIMUM ENCODING BIT RATE SET VALUE

RELATIONSHIP BETWEEN RECEIVE LEVEL AND OPTIMUM ENCODING BIT RATE

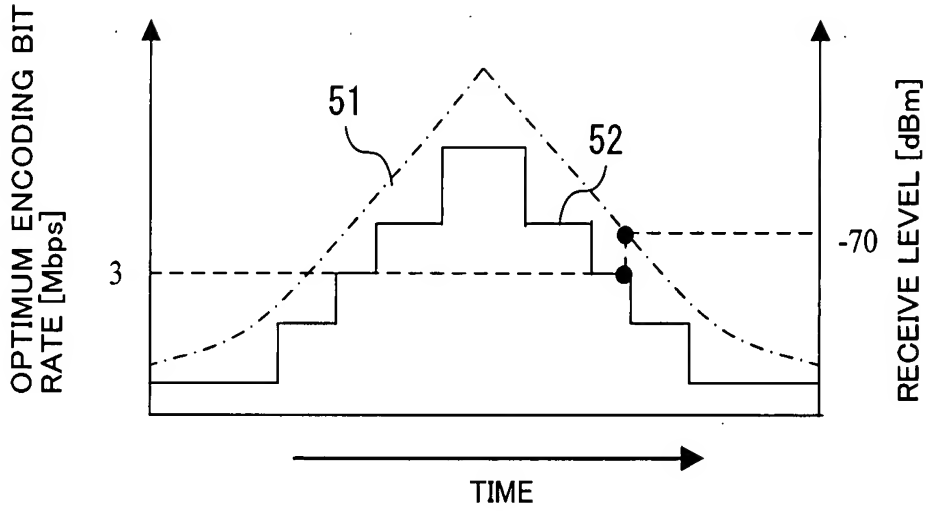

FIG. 11

TITLE: WIRELESS COMMUNICATION DEVICE, METHOD AND PROGRAM
INVENTORS: Akiko KUSUMOTO et al.
SERIAL NO.: Unassigned
DOCKET NO.: 1095.1310

PROCESS	PROCESSING LOAD AMOUNT	RECEIVE LEVEL	OPTIMUM ENCODING BIT RATE
NORMAL TRANSMISSION	10%	−70dBm	3Mbps
AUTHENTICATION	80%	−70dBm	1Mbps

FIG. 12

TITLE: WIRELESS COMMUNICATION DEVICE, METHOD AND PROGRAM
INVENTORS: Akiko KUSUMOTO et al.
SERIAL NO.: Unassigned
DOCKET NO.: 1095.1310

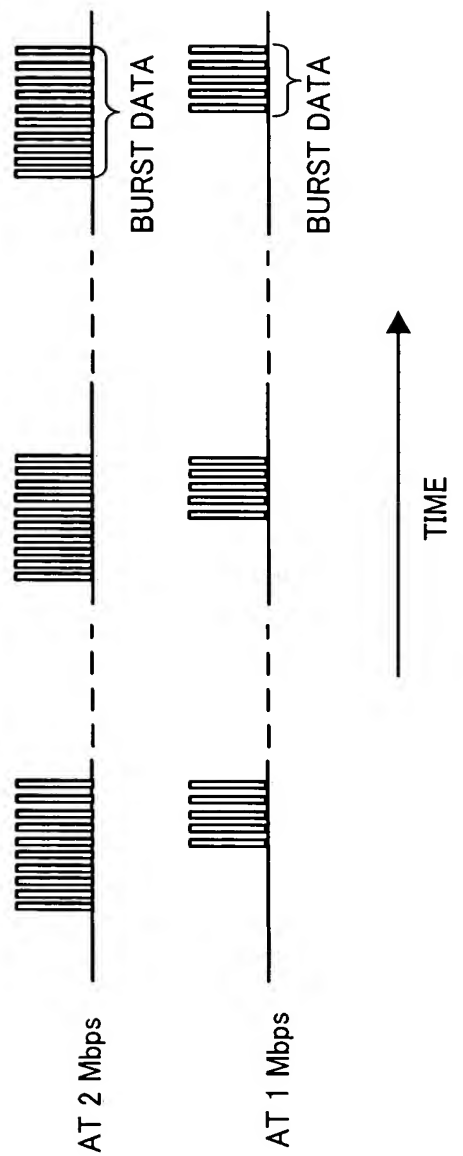

FIG. 13

TITLE: WIRELESS COMMUNICATION DEVICE, METHOD AND PROGRAM
INVENTORS: Akiko KUSUMOTO et al.
SERIAL NO.: Unassigned
DOCKET NO.: 1095.1310

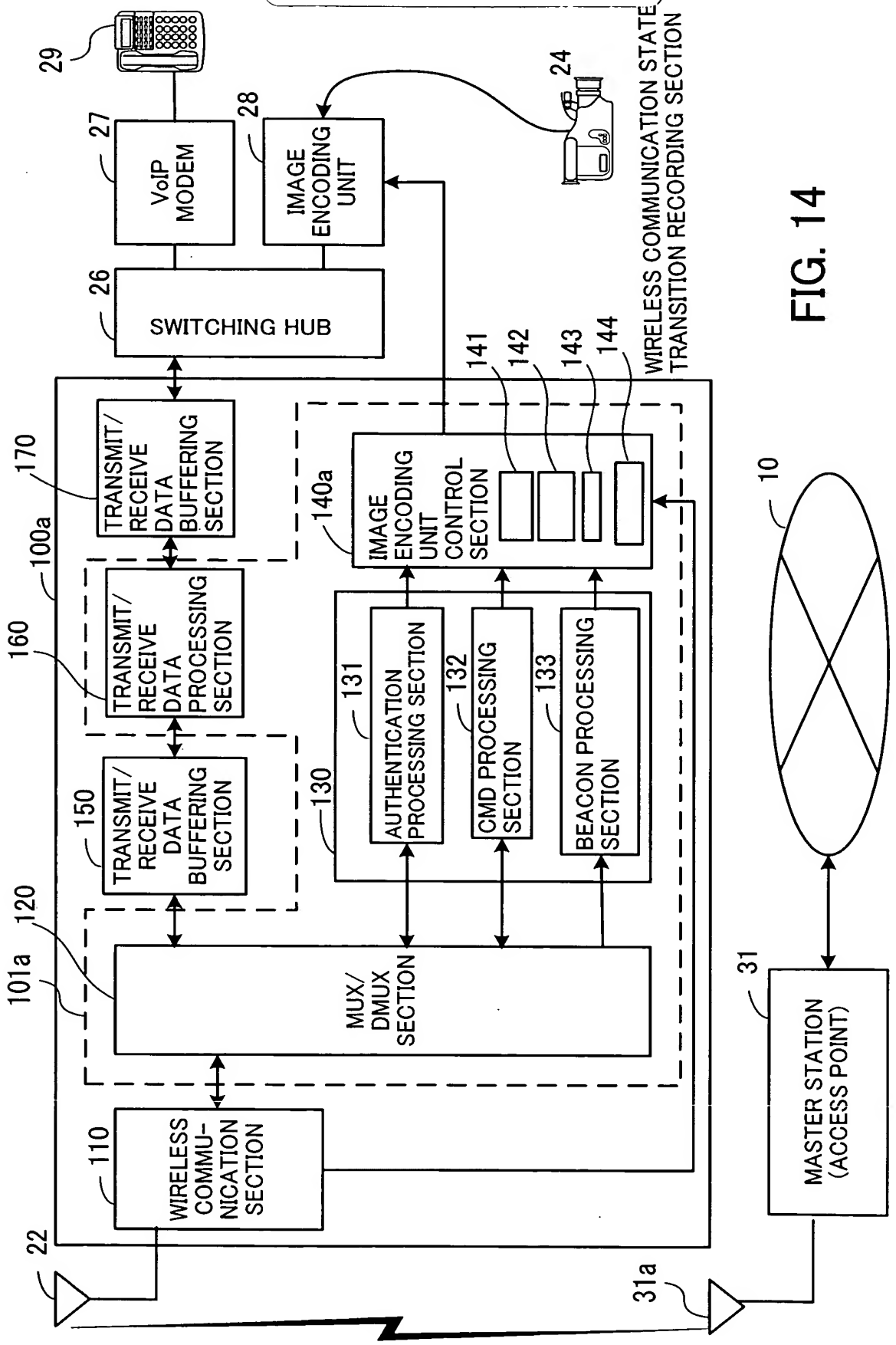

FIG. 14

144a RECEIVE LEVEL TRANSITION TABLE

TIME	RECEIVE LEVEL [dBm]
N−2	−80
N−1	−75
N (CURRENT TIME)	−73
N+1	−71

FIG. 15

TITLE: WIRELESS COMMUNICATION DEVICE, METHOD AND PROGRAM
INVENTORS: Akiko KUSUMOTO et al.
SERIAL NO.: Unassigned
DOCKET NO.: 1095.1310

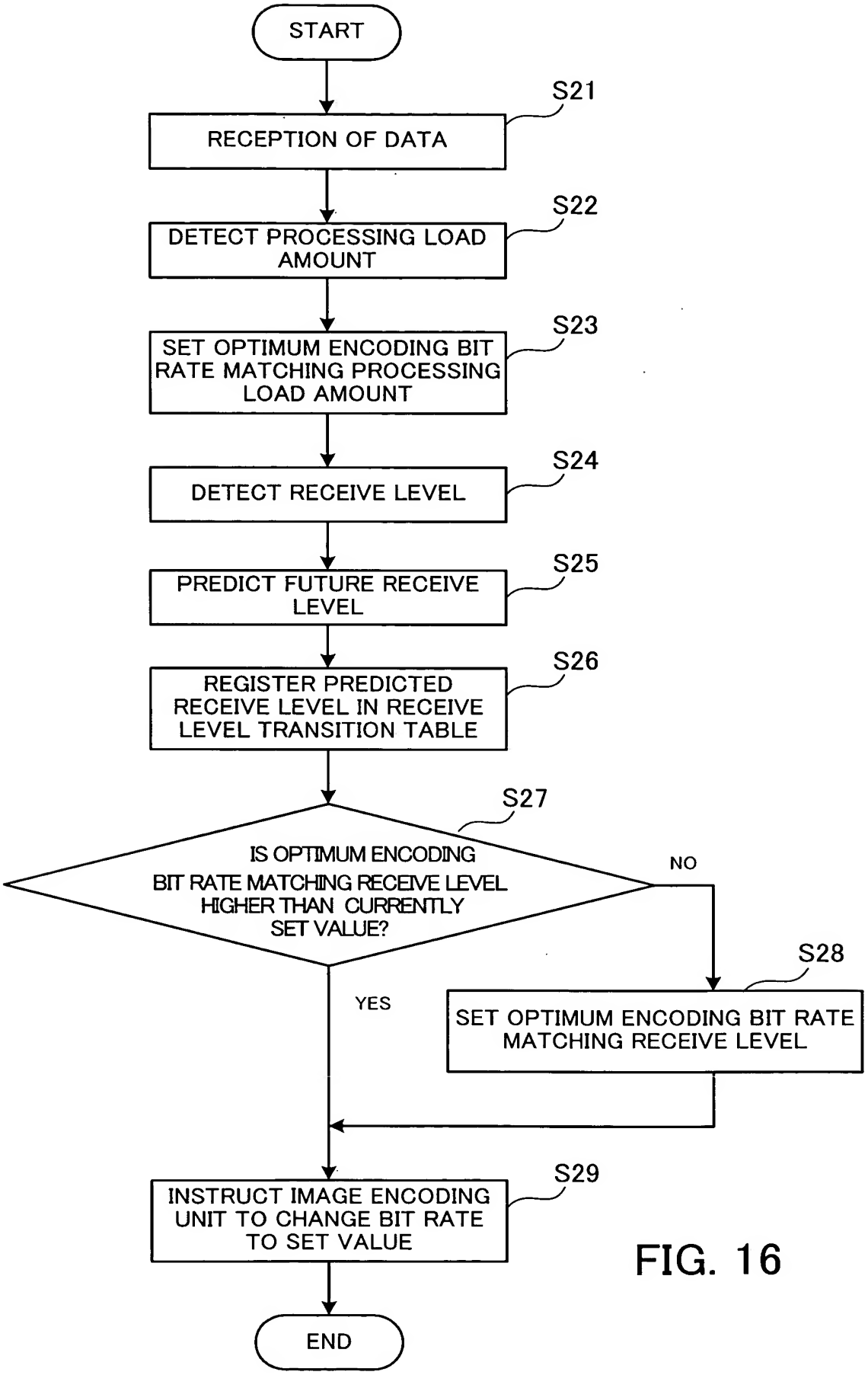

FIG. 16

TITLE: WIRELESS COMMUNICATION DEVICE, METHOD AND PROGRAM
INVENTORS: Akiko KUSUMOTO et al.
SERIAL NO.: Unassigned
DOCKET NO.: 1095.1310

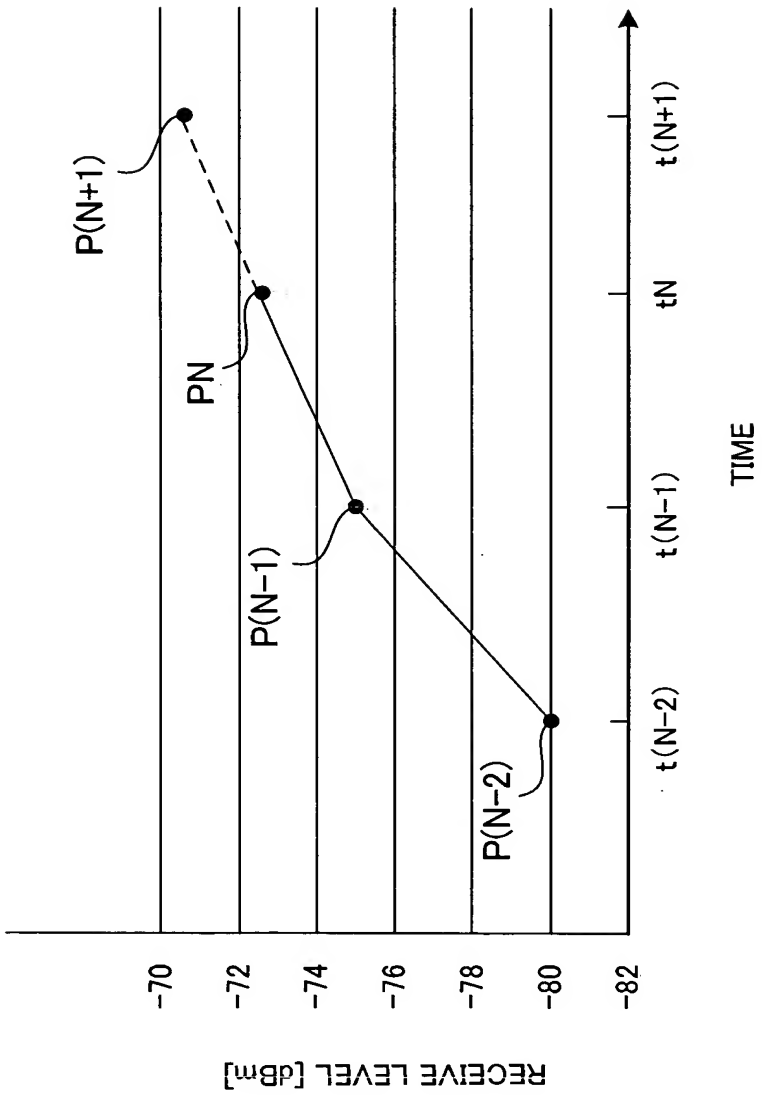

FIG. 17

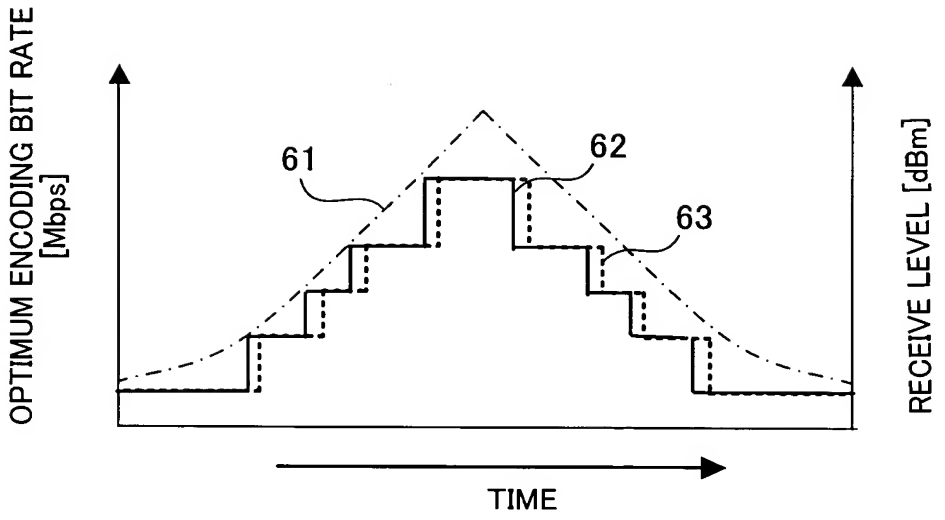
OPTIMUM ENCODING BIT RATE [Mbps]
RECEIVE LEVEL [dBm]
61
62
63
TIME
RECEIVE LEVEL
OPTIMUM ENCODING BIT RATE SET VALUE BASED ON PREDICTED
OPTIMUM ENCODING BIT RATE SET VALUE BASED ON ACTUAL MEASURED VALUE OF RECEIVE LEVEL

FIG. 18

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INVENTORS: Akiko KUSUMOTO et al.
SERIAL NO.: Unassigned
DOCKET NO.: 1095.1310

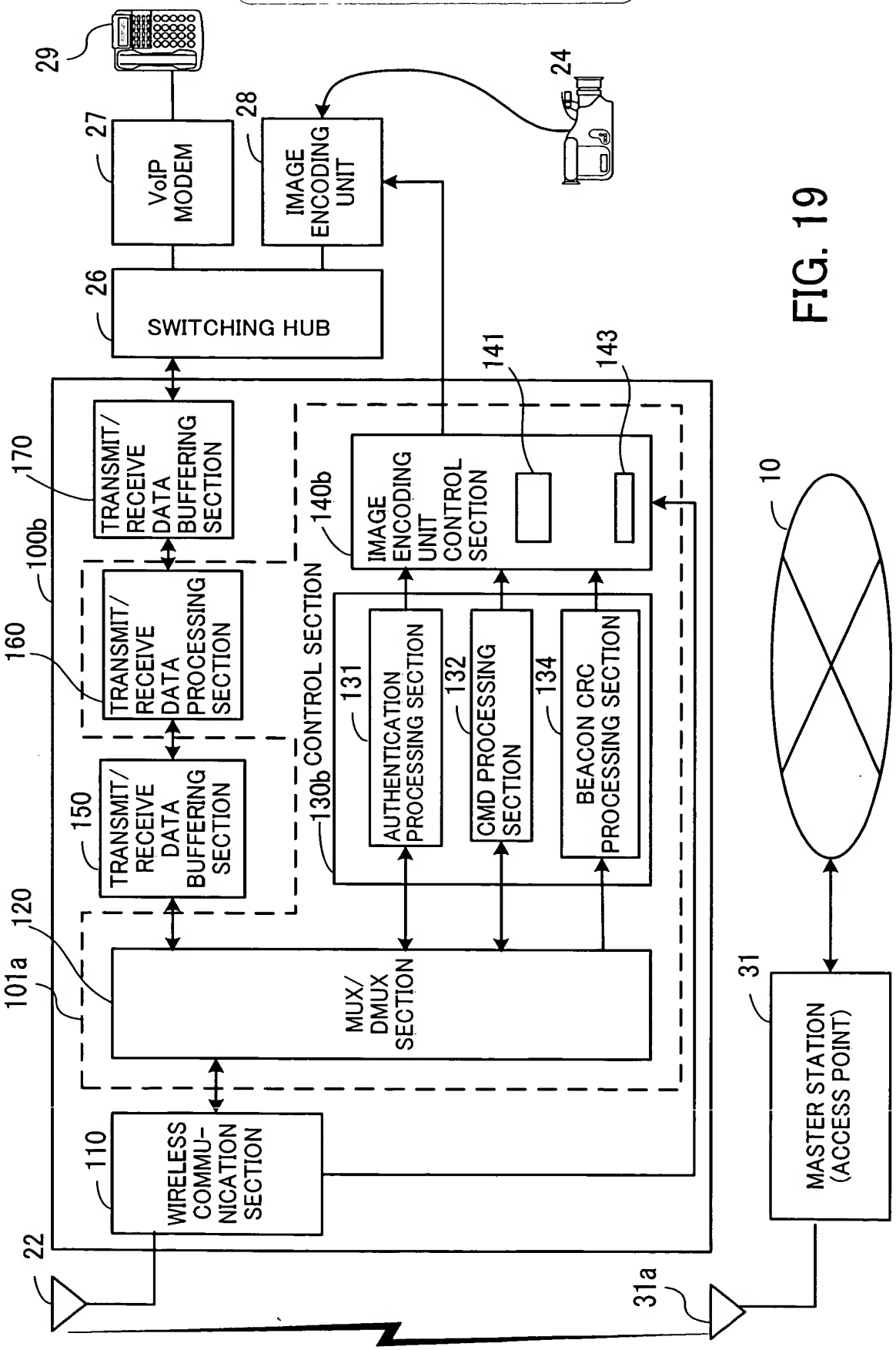

FIG. 19

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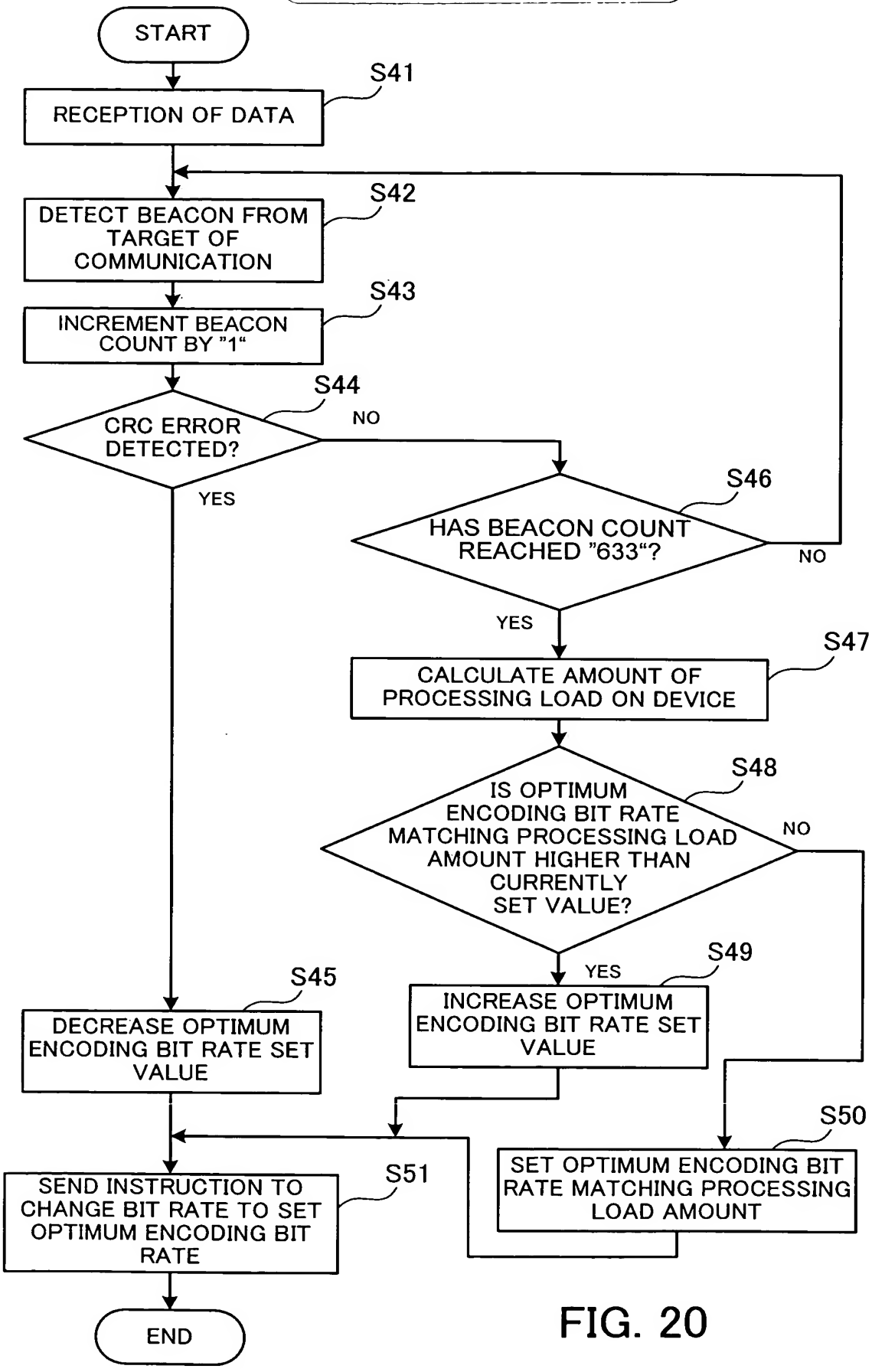

FIG. 20